INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/43043

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : E06B 3/32 US CL : 160/89 According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 160/89, 84.04,84.05,167R					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOC	JMENTS CONSIDERED TO BE RELEVANT				
Category *	Citation of document, with indication, where a	ppropriate,	of the relevant passages	Relevant to claim No.	
х	US 6,033,504 A (JUDKINS) 07 March 2000 (07.03.	2000), see	entire document	1,8,21-23,37	
 Ү-				36,39	
x 	US 2002/0043347 A (RUPEL) 18 April 2002 (18.04.2002), see entire document			15,21-23,37,38	
Y				36,39	
Y	US 5,791,390 A (WATANABE) 11 August 1998 (11	.08.1998),	see entire document	36,39	
Further documents are listed in the continuation of Box C. See patent family annex.					
"A" document particular	pecial categories of cited documents: defining the general state of the art which is not considered to be of relevance	"T"	later document published after the inter date and not in conflict with the applica principle or theory underlying the inven document of particular relevance; the ci considered novel or cannot be considered	tion but cited to understand the tion laimed invention cannot be	
-1." document	plication or patent published on or after the international filing date which may throw doubts on priority claim(s) or which is cited to	uy»	when the document is taken alone document of particular relevance; the cl		
specified)		•	considered to involve an inventive step with one or more other such documents obvious to a person skilled in the art	when the document is combined	
"P" document	referring to an oral disclosure, use, exhibition or other means t published prior to the international filing date but later than the	"&"	document member of the same patent fi	amily	
priority date claimed			nailing of the international searc	h report	
30 January 2006 (30 01 2006) 14 FEB 2006					
Name and mailing address of the ISA/US Mail Stop PCT, Atm: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Authorized officer Richard Chilcot Telephone No. (703) 308-1020			·		
Facsimile No. (571) 273-3201					

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)			
This interna	tional search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
ı. 🗌	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:		
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box No. II	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet			
1 2 3	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1,8,15,17/15,21-23,36-39		
Remark on	Protest The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.		
	The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.		
	No protest accompanied the payment of additional search fees.		

DEPORT SEADON DEPORT	International application No.				
INTERNATIONAL SEARCH REPORT	PCT/US04/43043				
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BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING This application contains claims directed to more than one species of the generic invention because they are not so linked as to form a single general inventive conception.	ention. These species are deemed to lack unity of				
In order for more than one species to be examined, the appropriate additional examir	nation fees must be paid. The species are as follows:				
Group 1: Figs. 1-4;5-6C;7-8B;9A-D;10A-D;11A-D;12A-D;13A-B;14A-D;15A-D;16 D;23A-D;24A-E;25A-C;26A-H;26J-L;27A-B;27K-M;27N-U;28A-B;29A-B;30A-B;	5A-C;17A-C;18A-D;19A-D;20A-D;21A-D;22A- ;31A;32A-E.				
Group 2: Figs. 38A-B;39-41;42-44;45-47;48A-B;49A-B;50A-B;51A-B;52-58;59-66	;67-69;70-73B;74-80,86-92,94,95;81-84,93.				
One species of each group must be selected. The structure of the species selected from group 1 must be disclosed as being compatible with the selected species of group 2.					
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